DON XML – Achieving Enterprise Interoperability

Michael Jacobs

Office of the DON CIO

DON XML

Why Are We Here Today?

- The Extensible Markup Language is a syntax for creating user defined data markup languages
- Each markup language acts as unique metadata
- Multiple markup languages create interoperability issues
  - No functional area is an island
  - Each functional area interoperates with many others
  - Transformations are expensive, time-consuming, and not guaranteed
- The DON must ensure an enterprise perspective if initiatives such as TF Web are to succeed with XML
- The DONXML WG stands ready to help you support the DON XML Vision and Policy

The DON XML Vision

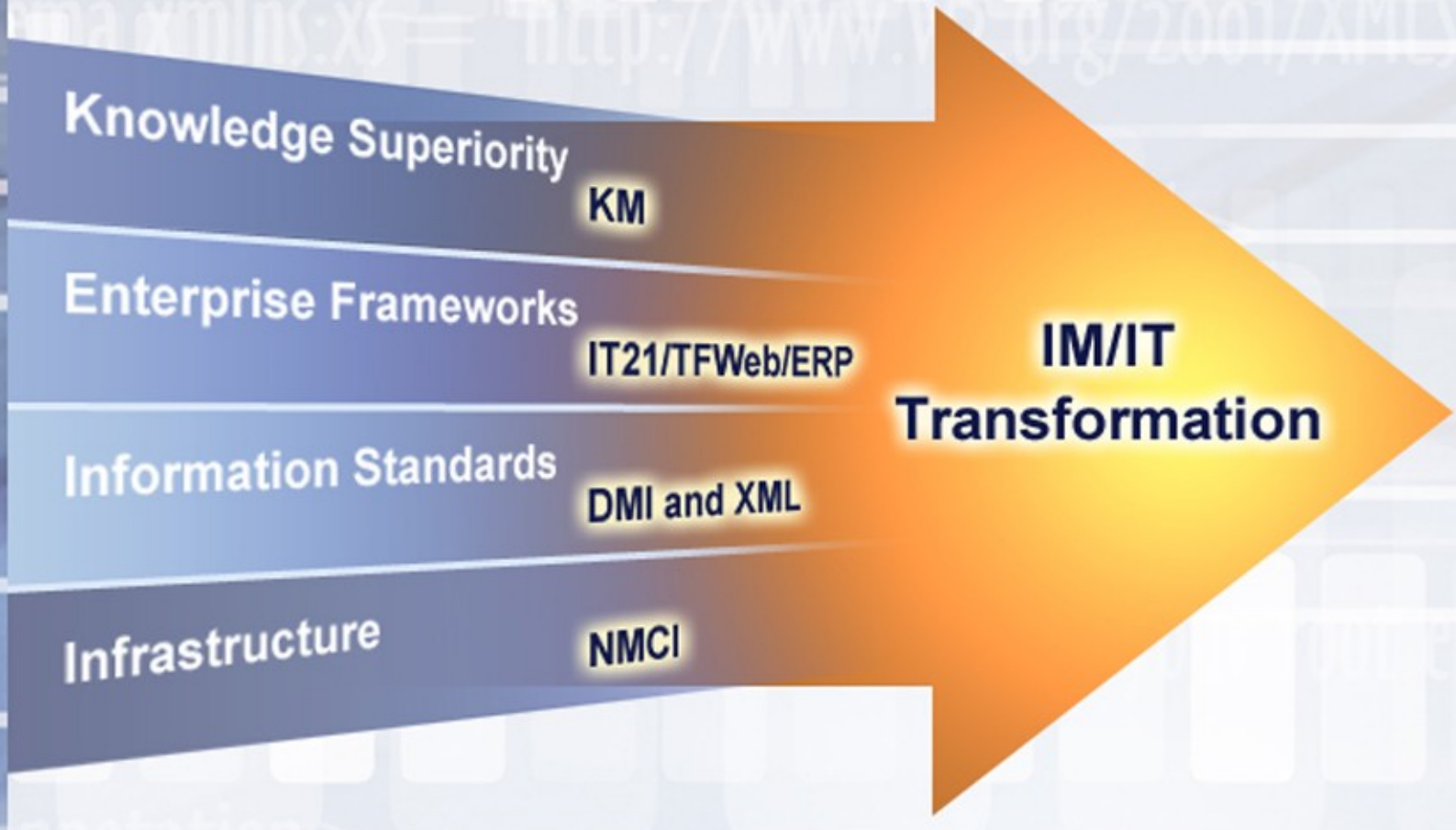
Vision

The Department of the Navy will fully exploit Extensible Markup Language as an enabling technology to achieve interoperability in support of maritime information superiority.

—Signed by Mr. Porter, DON CIO
15 March 2002

DON XML

Vision—
Introduction



Interoperability and systems integration are crucial to achieving maritime information superiority.

Vision—
The Right Technology

Specifications
W3C, ISO, IFTF

Business Standards
UBL, XBRL, HRXML

Frameworks
EbXML, RosettaNet

- Integral to databases, web pages, web services, exchange protocols
- Platform and application independent
- Preserves information against technological change
- Application processable and human readable

XML is a proven technology that will play a pivotal ro in making enterprise-wide interoperability a reality.

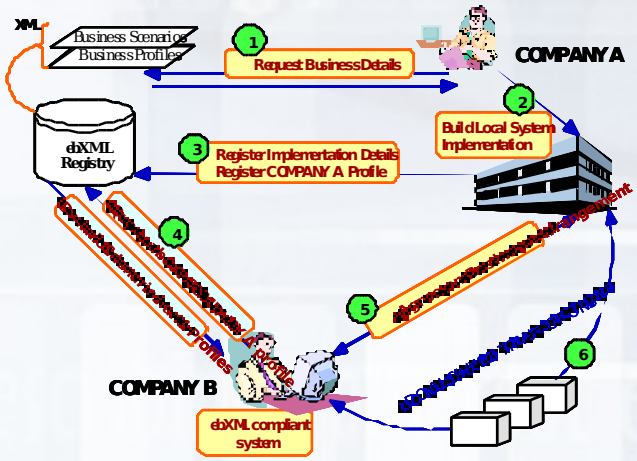
Vision—
XML Enabled Services & Applications

- **XML enabled applications**
  - **Are based on XML technical specifications**
  - **Will employ XML business standards**
  - **Play key role in all aspects of systems development, integration, and interoperability**
  - **Integral to achieving knowledge superiority**
  - **Must be capable of supporting interoperability with legacy systems**
- **DON Involvement**
  - **Identifying DON requirements through standards efforts**
  - **Identifying DON requirements through Alpha and Beta testing**

DON must be proactive about providing inputs to XML solution providers.

Vision—
Moving Forward with DON IM/IT Initiatives

- **The DON must establish XML based protocols as enterprise-wide standards**
  - **Identify, adopt, deploy single set of platform-independent information exchange protocols**
  - **Extend this model to the entire DON enterprise**
  - **Interoperability WILL BE enhanced**
  - **Develop distributed registry solution**



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The DON CIO is tasked with developing the required governance for establishment of DON-wide XML based protocols.

Achieving the Vision -
DON XML Policy

DON XML Policy Issued

- **Provides direction for development of interoperable XML business practices and applications across the DON**
- **Ensures integration of DON XML implementation with enterprise architecture initiatives**
- **Policy includes:**
  - **Direction on use of technical specifications, XML standard components, and participation on XML-related standards bodies**
  - **Prohibition on proprietary extensions**
  - **Creation of XML Functional Namespace Coordinators to support FAMs**
  - **Key action steps for DON CIO, FAMs,**
- **Next Steps**
  - **Work with FAMS and FDMs for standup of FNCs**
  - **Finalize governance structure**
  - **Finalize XML registry requirements, Concept of Operations, and implementation strategy**
  - **Enhance specific guidance for developers to support enterprise approach**

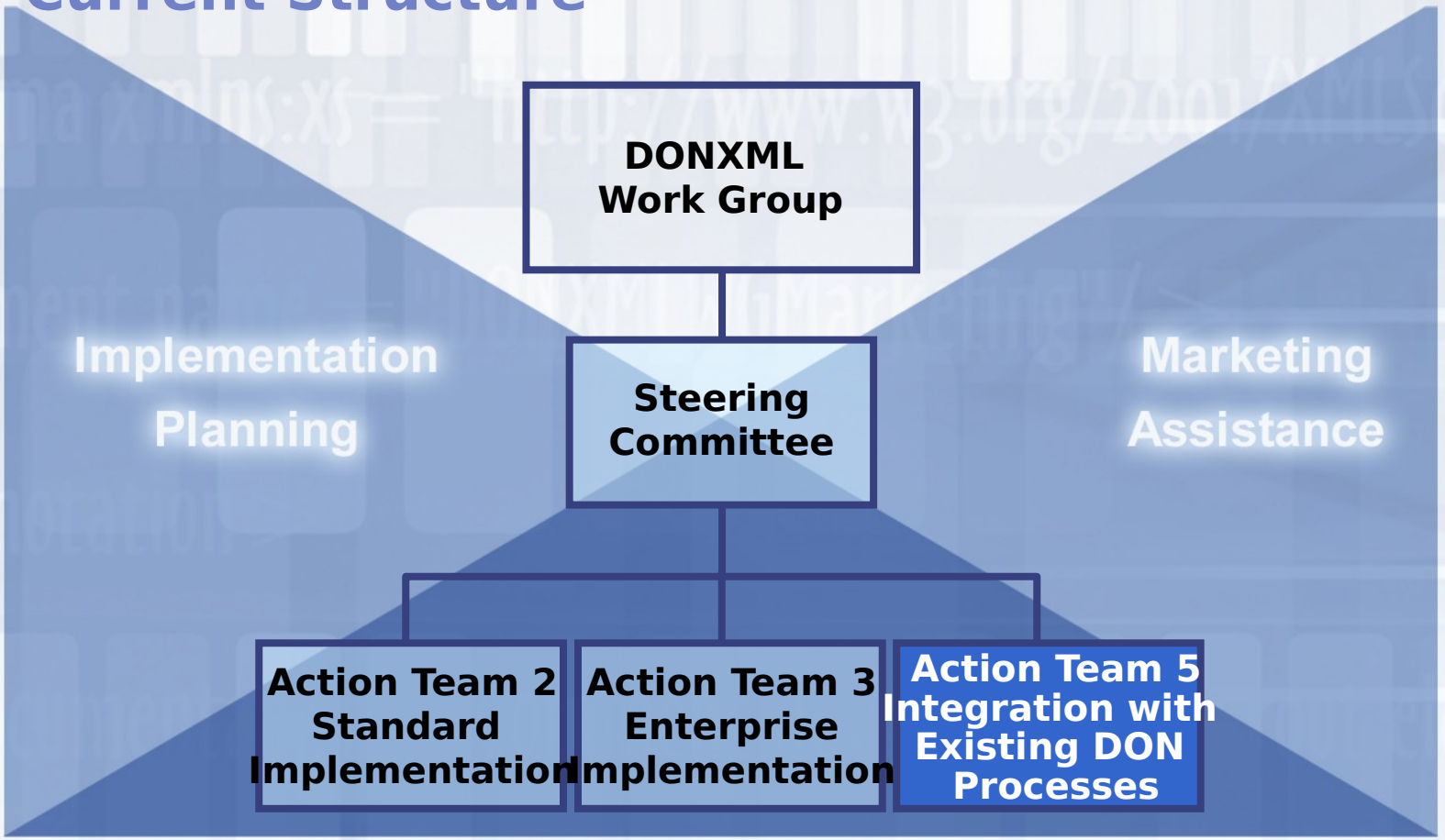
DON XML

Key Policy Components

- **Technical Specifications**
  - **W3C, OASIS, ISO, IETF, Other**
- **Proprietary Extensions**
- **Standards Participation**
- **XML Standard Components**
- **Developers Guide**
- **XML Enterprise Management**
- **DoD Registration Policy**

Achieving the Vision - Work Group and Governance Structure

Work Group—
Current Structure

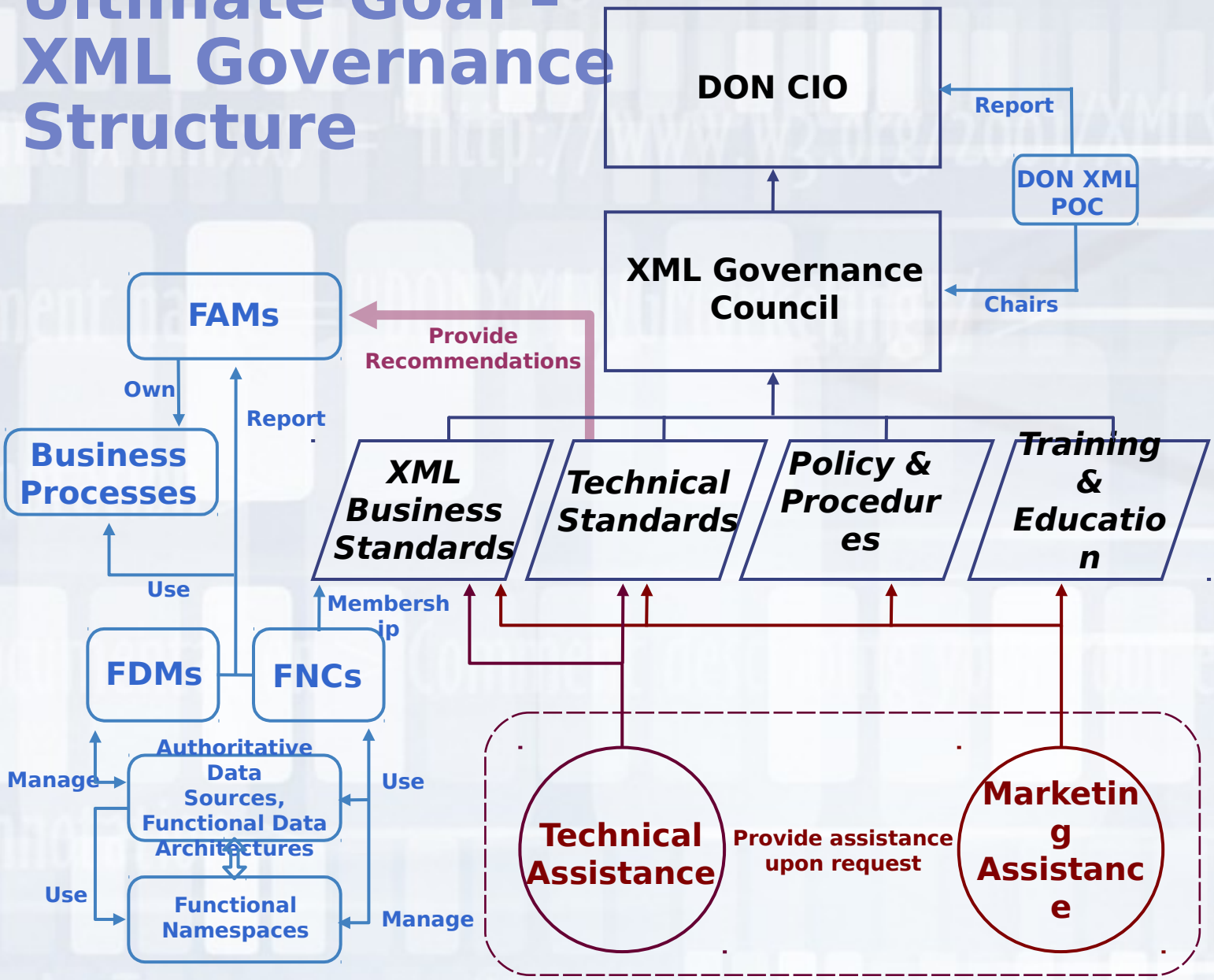


Creating consensus across the DON

Achieving the Vision – Evolving the Work Group Structure

- **FNC roles established**
- **Work group legitimacy established and formally recognized by DON Policy and press releases**
- **Work group interactions maturing, seeking better collaboration tools**

Ultimate Goal – XML Governance Structure



Achieving the Vision –
FAMs and FNCs

FAM XML Policy Responsibilities and Actions

- **FAM Responsibilities**
  - **Work with the appropriate Resource Sponsors to identify funding requirements in support of the XML Functional Namespace Coordinator (FNC), for their functional area**
  - **Provide oversight and management of the XML FNC's efforts, for the appropriate functional area**
- **FAM Action**
  - **"…shall designate an appropriate organization to act as the DON XML FNC, for their functional area of responsibility. This designation shall take place within 60 days from the date of this memorandum" (11 Feb, 03)**

FNC Responsibilities

- Report to the appropriate FAM and work in conjunction with the FDMs to ensure the development of an integrated data architecture
- Adhere to the requirements contained in
  - SECNAVINST 5000.36
  - FAM designation memo
  - Appropriate Federal, DoD and DON XML regulations, policies and standards
- Actively participate in the XML governance structure
- Implement DON XML strategy and processes

FNC Responsibilities

- **Advocate standard XML**
- **Select and use XML standard components in the following order of precedence (highest to lowest)**
- **Manage standards use**
- **Participate in developing and managing the DON Enterprise XML Namespace & functional area namespace**
- **Manage XML components**

Good News!

XML and the DON XML Enterprise Perspective is gaining wide acceptance

- **XML is being used in**
  - **TFWeb**
  - **TFExcel**
  - **IT21**
  - **NMCI**
  - **Virtually every other enterprise initiative**
- **XML is being used by**
  - **Systems Commands**
  - **Central Design Activities**
  - **Fleet and Type Commanders**
  - **Within virtually every organizational and functional boundary**
- **DONXML WG participation continues to grow**
- **Developers Guide gaining wide acceptance both within and external to DON**
- **Visibility of efforts is occurring on many fronts and is helping drive buy-in**

Press Coverage

- eWeek, Push for UBL Protocol Gathers Momentum, Darryl K. Taft, January 13, 2003
- eWeek, In the Navy, XML is the Standard, Darryl K. Taft, December 19, 2002
- PC Magazine, In the Navy, XML is the Standard, Darryl K. Taft, December 19, 2002
- Federal Computer Week, Navy XML policy signed, Matthew French, 18 Dec 2002
- Federal Computer Week, Navy preps XML policy - Policy seeks to drive data interoperability, Matthew French, 9 Dec 2002
- Also in the Cover Pages (http://xml.coverpages.org) –
  - ✓"Schema Checklist for Navy XML Developer's Guide 1.1. "
    DONXML Schema Checklist. By Mark Wolven (Mark Wolven). Available from Navy XML Quickplace. November 22, 2002. 3 pages.
  - ✓"XML - an Enabling Technology to Achieve Interoperability."
    By Dan Porter (The Department of the Navy, Chief Information Officer). In *CHIPS Magazine* (Fall 2002).
  - ✓"Promise and Potential: The Navy Works to Leverage XML's Power."

Summary

- XML is a key technology that will impact every aspect of the developing DON IM/IT Architecture
- DON XML Policy has direct impact on everyone using XML
- DONXML WG is actively engaged in supporting and enabling enterprise XML
- FAMs and FNCs will play key role in ensuring enterprise approach to XML implementation
- DONXML WG and DON CIO stand ready to assist in achieving the DON XML Vision

Resources & Point of Contact

- **DON XML Quickplace**
  https://quickplace.hq.navy.mil/navyxml
- **DON IM/IT Website**
  http://www.don-imit.navy.mil
  "Interest Areas", "Data Management"

Michael Jacobs
Office of the DON CIO
Data Architecture Project Lead
DONXML Work Group Chairperson
jacobs.michael@hq.navy.mil
703.601.3594

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Questions?